

JOB OFFER

Position in the project:	Student
Scientific discipline:	Electronics
Job type (employment contract/stipend):	Stipend
Number of job offers:	1
Remuneration/stipend amount/month (“X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN”):	1500 PLN / month (net)
Position starts on:	September 2019
Maximum period of contract/stipend agreement:	01.09.2019 – 30.01.2020
Institution:	Wrocław University of Science and Technology; Faculty of Electronics; Chair of EM Field Theory, Electronic Circuits and Optoelectronics
Project leader:	Dr. Grzegorz Soboń
Project title:	“Fiber-based mid-infrared frequency combs for laser spectroscopy and environmental monitoring” <i>Project is carried out within the First TEAM programme of the Foundation for Polish Science</i>
Project description:	The main goal of the proposed project is to develop novel types of fiber-based optical frequency combs in the mid-infrared spectral range, which will be suitable for field deployment and outside-lab operation. Such sources are on demand of many applications, particularly laser spectroscopy, e.g. fast and sensitive detection of multiple air pollutants (especially greenhouse gases) at a time. The broad spectral coverage of frequency combs allows to overcome the major limitation of existing spectroscopic techniques and enables measurement of entire molecular bands and simultaneous monitoring of multiple gas species. The project will be conducted in close cooperation with three recognized partners: Dr. Aleksandra Foltynowicz (Umeå University, Sweden), Dr. Gerard Wysocki (Princeton University, US), and Dr. Piotr Masłowski (Nicolaus Copernicus University in Toruń, Poland), world leading researchers with proven track records in the field of optical frequency combs and laser spectroscopy
Key responsibilities include:	<ol style="list-style-type: none"> 1. Development of data acquisition module for Fourier Transform Spectrometer (FTS) enabling measurements of spectral characteristics of mid-infrared lasers 2. Development of a LabVIEW/Python-based application for the FTS data acquisition and presentation.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. Preferred students from the following studies: electronics, electronic engineering, or similar 2. Required very good English language skills 3. Strong motivation 4. Availability (e.g. at least 2-3 days per week)
Required documents:	<ol style="list-style-type: none"> 1. Curriculum vitae with emphasis on scientific achievements and publications 2. Confirmation of student status (the candidate needs to have a valid student status starting from the beginning of the contract, i.e. 1.09.2019)

	<ol style="list-style-type: none"> 3. List of grades from studies 4. In case of master students – copy of bachelor thesis <p>Selected candidates will be invited to an interview with recruitment board consisting of at least 2 recognized scientists from the area of electronics and photonics. The board will select one candidate taking into account:</p> <ul style="list-style-type: none"> - skills and knowledge with respect to the Project area, - experience of the candidate in other research work, e.g. participation in research projects, - grades obtained during studies so far. <p>All candidates will be informed via e-mail about the results of the competition.</p>
We offer:	<ol style="list-style-type: none"> 1. Participation in a very attractive scientific program focused on applied research 2. Work in a recognized team of researchers 3. Access to unique top-level equipment 4. Dissemination of your results in scientific journals 5. Great opportunities to accomplish a very interesting bachelor or master thesis 6. Participation in scholarships, schools, research visits, etc.
Please submit the following documents to:	grzegorz.sobon@pwr.edu.pl
Application deadline:	15.08.2019
For more details about the position please visit (website/webpage address):	www.comb.pwr.edu.pl
Euraxess job/stipend offer (in case of PhD and postdoc positions):	

Please include in your offer:

"I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."